

=> dis hist

(FILE 'USPAT' ENTERED AT 14:36:14 ON 20 JUL 1998)

DEL HIST

L1	4217 S	CONTROLLER AND MOLD? AND PRESSURE AND TEMPERATURE
L2	1920 S	L1 AND INJECT?
L3	1201 S	L2 AND MANUFACTUR?
L4	562 S	L3 AND MONITOR?
L5	121 S	L4 AND TOOL?
L6	98 S	L5 AND MEASURE?
L7	72 S	L6 AND QUALITY
L8	24 S	L7 AND TOOLING
L9	4 S	L8 AND CONTROL SIGNAL

=> dis cit,fd

1. 5,304,341, Apr. 19, 1994, **Injection molding** apparatus and method having in-cavity control of plastics and gas flow rates; Suresh D. Shah, 264/572; 425/130 [IMAGE AVAILABLE]

US PAT NO: 5,304,341 [IMAGE AVAILABLE]
DATE FILED: Dec. 14, 1992

L13: 1 of 1

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(FILE 'USPAT' ENTERED AT 13:05:24 ON 20 JUL 1998)

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L1	1 S 5342191/PN
L2	0 S L1 AND SOLID?
L3	1 S 5728410/PN
L4	1 S L3 AND SOLID?
L5	1 S L3 AND CHANNEL?
L6	1 S L3 AND (PATH? OR PASSAG?) AND CHANNEL?
L7	1 S L3 AND SOLID?
L8	85577 S FLOW? (P) ACTUAT?
L9	9869 S L8 AND MOLD?
L10	3122 S L9 AND CHANNEL?
L11	1273 S L10 AND INJECT?
L12	67 S L11 AND TOOLING
L13	1 S L12 AND SHORT SHOT?

=> s mold? and tool? and inlet and channel? and cavit? flow?

304907 MOLD?
220212 TOOL?
287058 INLET
383737 CHANNEL?
222286 CAVIT?
920436 FLOW?
372 CAVIT? FLOW?
(CAVIT?(W)FLOW?)

L1 5 MOLD? AND TOOL? AND INLET AND CHANNEL? AND CAVIT? FLOW?

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=> dis cit,fd l1 1-5

1. 5,628,950, May 13, 1997, Method and apparatus for producing multilayer plastic articles; Walter J. Schrenk, et al., 264/241, 245 [IMAGE AVAILABLE]

US PAT NO: 5,628,950 [IMAGE AVAILABLE] L1: 1 of 5
DATE FILED: Sep. 30, 1994

2. 5,540,878, Jul. 30, 1996, Method for producing blow **molded** multilayer plastic articles; Walter J. Schrenk, et al., 264/513, 512; 425/523 [IMAGE AVAILABLE]

US PAT NO: 5,540,878 [IMAGE AVAILABLE] L1: 2 of 5
DATE FILED: Sep. 27, 1994

3. 5,380,479, Jan. 10, 1995, Method and apparatus for producing multilayer plastic articles; Walter J. Schrenk, et al., 264/241, 297.2, 328.12, 328.8, 513; 425/130 [IMAGE AVAILABLE]

US PAT NO: 5,380,479 [IMAGE AVAILABLE] L1: 3 of 5
DATE FILED: Nov. 9, 1992

4. 5,202,074, Apr. 13, 1993, Method for producing injection **molded** multilayer articles; Walter J. Schrenk, et al., 264/241, 245, 297.2, 328.12, 328.8, 513; 425/130 [IMAGE AVAILABLE]

US PAT NO: 5,202,074 [IMAGE AVAILABLE] L1: 4 of 5
DATE FILED: Apr. 11, 1991

5. 5,162,080, Nov. 10, 1992, Rotary flow control valve; Michael E. Drager, et al., 210/190; 137/625.29; 210/278 [IMAGE AVAILABLE]

US PAT NO: 5,162,080 [IMAGE AVAILABLE] L1: 5 of 5
DATE FILED: Oct. 16, 1991

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(FILE 'USPAT' ENTERED AT 15:20:40 ON 19 JUL 1998)

FILE 'USPAT' ENTERED AT 15:20:59 ON 19 JUL 1998